

RAW SEQUENCE LISTING

DATE: 08/29/2001

PATENT APPLICATION: US/09/848,834A

TIME: 15:04:48

Input Set : A:\09848834.txt

Output Set: N:\CRF3\08292001\I848834A.raw

ENTERED

p.5

3 <110> APPLICANT: Aphton Corporation
 5 <120> TITLE OF INVENTION: Chimeric Peptide Immunogens
 7 <130> FILE REFERENCE: 1102865-0047
 9 <140> CURRENT APPLICATION NUMBER: 09/848,834A
 10 <141> CURRENT FILING DATE: 2001-05-04
 12 <150> PRIOR APPLICATION NUMBER: 60/202,328
 13 <151> PRIOR FILING DATE: 2000-05-05
 15 <160> NUMBER OF SEQ ID NOS: 20
 17 <170> SOFTWARE: PatentIn version 3.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 10
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Homo sapiens
 24 <220> FEATURE:
 25 <221> NAME/KEY: MOD_RES
 26 <222> LOCATION: (1)..(1)
 27 <223> OTHER INFORMATION: Pyroglutamic acid or 5-oxoproline
 30 <220> FEATURE:
 31 <221> NAME/KEY: MOD_RES
 32 <222> LOCATION: (10)..(10)
 33 <223> OTHER INFORMATION: Amidated-glycine or glycinamide
 36 <400> SEQUENCE: 1
 W--> 38 Xaa^c His Trp Ser Tyr Gly Leu Arg Pro Xaa ✓
 39 1 5 10
 41 <210> SEQ ID NO: 2
 42 <211> LENGTH: 16
 43 <212> TYPE: PRT
 44 <213> ORGANISM: Tetanus bacillus
 46 <220> FEATURE:
 47 <221> NAME/KEY: PEPTIDE
 48 <222> LOCATION: (1)..(16)
 49 <223> OTHER INFORMATION: Amino acid sequence 829-844 of the Tetanus
 50 Toxoid Precursor (Tentoxylisin)
 53 <400> SEQUENCE: 2
 55 Met Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
 56 1 5 10 15
 58 <210> SEQ ID NO: 3
 59 <211> LENGTH: 20
 60 <212> TYPE: PRT
 61 <213> ORGANISM: Plasmodium falciparum
 63 <220> FEATURE:
 64 <221> NAME/KEY: PEPTIDE
 65 <222> LOCATION: (1)..(20)
 66 <223> OTHER INFORMATION: Amino acid sequence 378-398 of the Plamodium
 67 falciparum circumsporozoite (CSP) protein
 70 <400> SEQUENCE: 3
 72 Asp Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe Asn

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73 1          5          10          15
75 Val Val Asn Ser
76          20
78 <210> SEQ ID NO: 4
79 <211> LENGTH: 21
80 <212> TYPE: PRT
81 <213> ORGANISM: Tetanus bacillus
83 <220> FEATURE:
84 <221> NAME/KEY: PEPTIDE
85 <222> LOCATION: (1)..(21)
86 <223> OTHER INFORMATION: Amino acid sequence 947-967 of Tetanus
87      Toxoid Precursor (Tentoxylisin)
90 <400> SEQUENCE: 4
92 Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser
93 1          5          10          15
95 Ala Ser His Leu Glu
96          20
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 4
100 <212> TYPE: PRT
C--> 101 <213> ORGANISM: Artificial
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Synthetic peptide ✓
106 <400> SEQUENCE: 5
108 Gly Pro Ser Leu
109 1
111 <210> SEQ ID NO: 6
112 <211> LENGTH: 6
113 <212> TYPE: PRT
C--> 114 <213> ORGANISM: Artificial
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Synthetic peptide ✓
119 <400> SEQUENCE: 6
121 Ser Ser Gly Pro Ser Leu
122 1          5
124 <210> SEQ ID NO: 7
125 <211> LENGTH: 8
126 <212> TYPE: PRT
C--> 127 <213> ORGANISM: Artificial
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Synthetic peptide ✓
132 <400> SEQUENCE: 7
134 Ser Ser Gly Pro Ser Leu Lys Leu
135 1          5
137 <210> SEQ ID NO: 8
138 <211> LENGTH: 16
139 <212> TYPE: PRT
140 <213> ORGANISM: Measles virus
142 <220> FEATURE:

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143 <221> NAME/KEY: PEPTIDE
144 <222> LOCATION: (1)..(16)
145 <223> OTHER INFORMATION: Amino acid sequence 288-302 of the measles
146      virus fusion protein, F
149 <400> SEQUENCE: 8
151 Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly Val Glu
152 1          5          10          15
154 <210> SEQ ID NO: 9
155 <211> LENGTH: 31
156 <212> TYPE: PRT
C--> 157 <213> ORGANISM: Artificial
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Chimeric peptide made up of amino acid sequence 288-302 of
the Me
161      asels virus fusion protein, F linked by a spacer peptide to amino
162      acid sequence 2-10 of the GnRH hormone
164 <220> FEATURE:
165 <221> NAME/KEY: MOD_RES
166 <222> LOCATION: (1)..(1)
167 <223> OTHER INFORMATION: Amidated Lysine
170 <220> FEATURE:
171 <221> NAME/KEY: PEPTIDE
172 <222> LOCATION: (1)..(15)
173 <223> OTHER INFORMATION: Peptide corresponds to the amino acid sequences 288-302 of
the
174      measles virus fusion protein, F
177 <220> FEATURE:
178 <221> NAME/KEY: PEPTIDE
179 <222> LOCATION: (19)..(22)
180 <223> OTHER INFORMATION: Spacer peptide
183 <220> FEATURE:
184 <221> NAME/KEY: PEPTIDE
185 <222> LOCATION: (23)..(31)
186 <223> OTHER INFORMATION: Peptide corresponds to amino acid sequences 2-10 of the
human
187      GnRH hormone
190 <220> FEATURE:
191 <221> NAME/KEY: MOD_RES
192 <222> LOCATION: (31)..(31)
193 <223> OTHER INFORMATION: Amidated glycine or glycinamide
196 <400> SEQUENCE: 9
198 Lys Leu Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly
199 1          5          10          15
W--> 201 Val Glu Gly Pro Ser Leu His Trp Ser Tyr Gly Leu Arg Pro Xaa
202          20          25          30
204 <210> SEQ ID NO: 10
205 <211> LENGTH: 34
206 <212> TYPE: PRT
C--> 207 <213> ORGANISM: Artificial
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Chimeric peptide consisting of amino acid sequence 947-967
of the
211      Tetanus toxoid precursor (Tentoxylisin) linked by a spacer to am

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212 ino acid sequence 2-10 of the GnRH hormone

214 <220> FEATURE:

215 <221> NAME/KEY: MOD_RES

216 <222> LOCATION: (1)..(1)

217 <223> OTHER INFORMATION: Amidated phenylalanine

220 <220> FEATURE:

221 <221> NAME/KEY: PEPTIDE

222 <222> LOCATION: (1)..(21)

223 <223> OTHER INFORMATION: Amino acids 947-967 of the Tetanus Toxoid Precursor

224 (Tentoxylisin)

227 <220> FEATURE:

228 <221> NAME/KEY: PEPTIDE

229 <222> LOCATION: (22)..(25)

230 <223> OTHER INFORMATION: Spacer peptide

233 <220> FEATURE:

234 <221> NAME/KEY: PEPTIDE

235 <222> LOCATION: (26)..(34)

236 <223> OTHER INFORMATION: Amino acids 2-10 of the human GnRH hormone

239 <220> FEATURE:

240 <221> NAME/KEY: MOD_RES

241 <222> LOCATION: (34)..(34)

242 <223> OTHER INFORMATION: Amidated glycine or glycinamide

245 <400> SEQUENCE: 10

247 Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser

248 1 5 10 15

250 Ala Ser His Leu Glu Gly Pro Ser Leu His Trp Ser Tyr Gly Leu Arg

251 20 25 30

W--> 253 Pro Xaa

256 <210> SEQ ID NO: 11

257 <211> LENGTH: 28

258 <212> TYPE: PRT

C--> 259 <213> ORGANISM: Artificial

261 <220> FEATURE:

262 <223> OTHER INFORMATION: Chimeric peptide consisting of amino acid sequence 830-844

of the

263 Tetanus toxoid precursor (Tentoxylisin) linked by a spacer to am

264 ino acid sequence 2-10 of the GnRH hormone

266 <220> FEATURE:

267 <221> NAME/KEY: MOD_RES

268 <222> LOCATION: (1)..(1)

269 <223> OTHER INFORMATION: Amidated-glutamine

272 <220> FEATURE:

273 <221> NAME/KEY: MOD_RES

274 <222> LOCATION: (28)..(28)

275 <223> OTHER INFORMATION: Amidated-glycine or glycinamide

278 <220> FEATURE:

279 <221> NAME/KEY: PEPTIDE

280 <222> LOCATION: (1)..(15)

281 <223> OTHER INFORMATION: Amino acid sequence 830-844 of the Tetanus Toxoid Precursor

282 (Tentoxylisin)

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285 <220> FEATURE:
286 <221> NAME/KEY: PEPTIDE
287 <222> LOCATION: (16)..(19)
288 <223> OTHER INFORMATION: Spacer peptide
291 <220> FEATURE:
292 <221> NAME/KEY: PEPTIDE
293 <222> LOCATION: (20)..(28)
294 <223> OTHER INFORMATION: Amino acid sequence 2-10 of the human GnRH hormone
297 <400> SEQUENCE: 11
299 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu Gly
300 1 5 10 15
W--> 302 Pro Ser Leu His Trp Ser Tyr Gly Leu Arg Pro Xaa
303 20 25
305 <210> SEQ ID NO: 12
306 <211> LENGTH: 33
307 <212> TYPE: PRT
C--> 308 <213> ORGANISM: Artificial
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Chimeric peptide consisting of amino acid sequence 378-398
of the
312 Plasmodium falciparum CSP protein linked by a spacer to amino ac
313 id sequence 2-10 of the GnRH hormone
315 <220> FEATURE:
316 <221> NAME/KEY: MOD_RES
317 <222> LOCATION: (1)..(1)
318 <223> OTHER INFORMATION: Amidated aspartic acid
321 <220> FEATURE:
322 <221> NAME/KEY: MOD_RES
323 <222> LOCATION: (33)..(33)
324 <223> OTHER INFORMATION: Amidated glycine or glycinamide
327 <220> FEATURE:
328 <221> NAME/KEY: PEPTIDE
329 <222> LOCATION: (1)..(20)
330 <223> OTHER INFORMATION: Amino acid sequence 378-398 of the Malaria
331 (Plasmodium falciparum) circumsporozoite
332 (CSP) protein
335 <220> FEATURE:
336 <221> NAME/KEY: PEPTIDE
337 <222> LOCATION: (21)..(24)
338 <223> OTHER INFORMATION: Spacer peptide
341 <220> FEATURE:
342 <221> NAME/KEY: PEPTIDE
343 <222> LOCATION: (25)..(33)
344 <223> OTHER INFORMATION: Amino acid sequence 2-10 of the human GnRH hormone
347 <400> SEQUENCE: 12
349 Asp Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe Asn
350 1 5 10 15
352 Val Val Asn Ser Gly Pro Ser Leu His Trp Ser Tyr Gly Leu Arg Pro
353 20 25 30
W--> 355 Xaa

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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 08/29/2001

PATENT APPLICATION: US/09/848,834A

TIME: 15:04:49

Input Set : A:\09848834.txt

Output Set: N:\CRF3\08292001\I848834A.raw

L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:101 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:114 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:127 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:157 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:207 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:259 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:308 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:361 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:407 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:453 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:496 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:543 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:608 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:676 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:735 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:741 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20
L:793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20